







[[FIGURE 6]] added

[FIGURE 7] Homo sapiens fibulin 6 (FIBL-6), mRNA gij20536570|ref|XM_053531.6|[20536570]

```
60
gagtttggtg cttgtccccg tctgattctc agcgccaaac tttttgctag ttcagagatt
                                                                      120
ccaagagtct gatgagttac tctgagagga aaccctctgc ctgttgttga ggaggactga
                                                                      180
gcacagtgct taggcgctga gggggaaaaa gagggggaaa aaaaagaaaa tgatttcctg
                                                                      240
ggaagttgtc catacagtat tootgtttgc tottetttat tottecetag etcaagatge
                                                                      300
gagcccccag tcagagatca gagctgagga aattcccgag ggggcctcca cgttggcttt
                                                                      360
tgtgtttgat gtgactggtt ctatgtatga tgatttagtt caggtgattg aaggggcttc
                                                                      420
caaaattttg gagacgtctt tgaaaagacc taaaagacct cttttcaact ttgcgttggt
                                                                      480
geettteeat gateeagaaa ttggeeeagt gacaattace acagateeea agaaatttea
                                                                      540
atatgaactc agagaactgt atgttcaggg tggtggtgat tgcccagaaa tgagtattgg
                                                                      600
agctataaaa attgccttgg aaatttctct tcctggttct ttcatctatg ttttcactga
                                                                      660
tgctcggtcc aaagattacc ggctcaccca tgaggtgctg caacttatcc aacagaaaca
                                                                      720
gtcacaagtc gtatttgttc tgactggaga ttgtgatgac aggacccata ttggatataa
                                                                      780
agtotatgaa gaaattgoot otacaagtto tggtcaagtg ttocatotgg acaaaaaca
                                                                      840
agttaatgag gtattaaaat gggtagaaga agcagtacag gcctccaaag ttcacctttt
                                                                      900
atccacagat catttggaac aggctgtaaa tacttggaga attccttttg atcccagcct
                                                                      960
gaaagaggtc actgtgtctt tgagtgggcc ttctccaatg attgaaattc gcaatccttt
                                                                     1020
agggaagetg ataaaaaagg gatttggeet geatgageta ttaaatatee ataactetge
caaagtagtg aatgtgaaag agccagaggc tggaatgtgg acagtgaaga cctcaagcag
                                                                     1140
tggaaggcac tctgttcgca ttactggcct cagtactatt gatttccgag ctggcttttc
                                                                     1200
togaaagcoc accotggact toaaaaaaac agtoagcaga coagtgoaag gaatacctac
                                                                     1260
ctatgtactg ctcaatactt ctggaatttc cactccagct agaatagatc ttcttgaact
                                                                     1320
tttgagtatc tcaggaagtt ctcttaagac tattcctgtt aaatattacc cacatcgaaa
                                                                     1380
accttatggc atatggaata tttctgactt tgtaccacca aatgaagctt tctttctcaa
                                                                     1440
agtaacaggc tatgataaag atgattacct cttccagaga gtatcaagtg tttccttttc
                                                                     1500
tagtattgtc ccagatgctc ccaaagttac gatgcctgag aaaaccccag gatactatct
                                                                     1560
gcagccgggc caaattccct gctctgttga cagtcttttg ccctttacct tgagctttgt
                                                                     1620
cagaaatgga gttacacttg gagtagacca gtatttgaaa gaatctgcca gtgtgaactt
                                                                     1680
agatattgca aaggtcactt tgtctgacga aggtttctat gaatgcattg ctgtcagcag
                                                                     1740
tgcaggtact ggacgggcac agacattttt tgacgtatca gagccccctc cggtcatcca
                                                                     1800
agtgcctaac aatgttacag teactectgg agagagagea gttttaacat gteteateat
                                                                     1860
cagtgcggtg gattacaatc taacctggca gaggaatgac agagatgtca gactggcaga
                                                                     1920
gccagcgaga attaggacct tggctaatct gtcattggag ctaaagagtg tgaaattcaa
                                                                     1980
cgatgctgga gagtatcatt gtatggtttc tagtgaaggt ggatcatcag ccgcttcagt
                                                                     2040
tttcctcaca gtgcaagaac cacccaaagt cactgtgatg cccaagaatc agtctttcac
                                                                     2100
aggagggtct gaggtctcca tcatgtgttc tgcaacaggt tatcccaaac caaagattgc
                                                                     2160
ctggaccgtt aacgatatgt ttatcgtggg ttcacacagg tataggatga cctcagatgg
                                                                     2220
taccttattt atcaaaaatg cageteecaa agatgeaggg atctatggtt geetageaag
                                                                     2280
taattcagct ggaacagata aacagaattc tactctcaga tacattgaag cccctaagtt
                                                                     2340
gatggtagtt cagagtgagc tcttggttgc ccttggggat ataaccgtta tggaatgcaa
                                                                     2400
aacctctggt attcctccac ctcaagttaa atggttcaaa ggagatcttg agttgaggcc
                                                                     2460
ctcaacattc ctcattattg accetetett gggacttttg aagattcaag aaacacaaga
                                                                     2520
tctggatgct ggcgattata cctgtgtagc catcaatgag gctggaagag caactggcaa
                                                                     2580
gataactctg gatgttggct cacctccagt tttcatacaa gaacctgctg atgtgtctat
                                                                     2640
ggaaattggc tcaaatgtga cattaccttg ttatgttcag ggttatccag aaccaacaat
                                                                     2700
caaatggcga agattagaca acatgccaat tttctcaaga cctttttcag ttagttccat
                                                                     2760
cagccaacta agaacaggag ctctctttat tttaaactta tgggcaagtg ataaaggaac
                                                                     2820
ctatatttgt gaagctgaaa accagtttgg aaagatccag tcagagacaa cagtaacagt
                                                                     2880
gaccggactt gttgctccac ttattggaat cagcccttca gtggccaatg ttattgaagg
                                                                     2940
acagcagctt actttgccct gtactctgtt agctggaaat cccattccag aacgtcggtg
                                                                     3000
gattaagaat tcagctatgt tgctccaaaa tccttacatc actgtgcgca gtgatgggag
                                                                     3060
cctccatatt gaaagagttc agcttcagga tggtggtgaa tatacttgtg tggccagtaa
                                                                     3120
cgttgctggg accaataaca aaactacctc tgtggttgtg catgttctgc caaccattca
                                                                     3180
```

FIG. 7A ~ added

Homo sapiens fibulin 6 (FIBL-6), mRNA gii20536570|ref|XM_053531.6|[20536570]

```
gcatgggcag cagatactca gtacaattga aggcattcca gtaactttac catgcaaagc
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aagtggaaat cccaaaccgt ctgtcatctg gtccaagaaa ggagagctga tttcaaccag
                                                                      3300
cagtgctaag tittcagcag gagctgatgg tagtctgtat gtggtatcac ctggaggaga
                                                                      3360
ggagagtggg gagtatgtct gcactgccac caatacagcc ggctacgcca aaaggaaagt
                                                                      3420
gcagctaaca gtctatgtaa ggcccagagt gtttggagat caacgaggac tgtcccagga
                                                                      3480
taageetgtt gagateteeg teettgeagg ggaagaggta acaetteeat gtgaagtgaa
                                                                      3540
gagettacet ecacecataa ttaettggge caaagaaace cageteatet cacegttete
                                                                      3600
tocaagacac acattoctoc ottotggtto aatgaagato actgaaacco goacttoaga
                                                                      3660
tagtgggatg tatctttgtg ttgccacaaa tattgctggg aatgtgactc aggctgtcaa
                                                                      3720
attaaatgtc catgttcctc caaagataca gcgtggacct aaacatctca aagtccaagt
                                                                      3780
tggtcaaaga gtggatatte catgtaatge tcaagggact cetetteetg taateacetg
                                                                      3840
gtccaaaggt ggaagcacta tgctggttga tggagagcac catgttagca atccagacgg
                                                                      3900
aactttaagc atcgaccaag ccacgccctc agatgctggc atatatacat gtgttgctac
                                                                      3960
taacatagca ggcactgatg aaacagagat aacgctacat gtccaagaac cacccacagt
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ggaagatcta gaacctccat ataacactac tttccaagaa agagtggcca atcaacgcat
                                                                      4080
tgaatttcca tgtcctgcaa aaggtacccc taaaccaacc atcaaatggt tacacaatgg
                                                                      4140
tagagagttg acaggcagag agcctggcat ttctatcttg gaagatggca cattgctggt
                                                                      4200
tattgcttct gttacaccct atgacaatgg ggagtacatc tgtgtggcag tcaatgaagc
                                                                      4260
tggaaccaca gaaagaaaat ataacctcaa agtccatgtt cctccagtaa ttaaagataa
                                                                      4320
agaacaagtt acaaatgtgt cggtgttgtt aaatcagctg accaatctct tctgtgaagt
                                                                      4380
ggaaggcact ccatctccca tcattatgtg gtataaagat aatgtccagg tgactgaaag
                                                                      4440
cagcactatt cagactgtga acaatgggaa gatactgaag ctettcagag ccactccaga
                                                                      4500
ggatgcagga agatatteet gcaaagcaat taatattgca ggeacttete agaagtaett
                                                                      4560
taacattgat gtgctagttc cacccaccat aataggtacc aacttcccaa atgaagtctc
                                                                      4620
agttgtcctc aaccgtgacg tcgcccttga atgccaggtc aaaggcactc cctttcctga
                                                                      4680
tattcattgg ttcaaagatg gcaagccttt atttttgggc gatcctaatg ttgaacttct
                                                                      4740
agacagagga caagtottac atttaaagaa tgcacggaga aatgacaagg ggcgctacca
                                                                      4800
atgtactgtg tctaatgcag ctggcaaaca agccaaggat ataaaactga ctatctataa
                                                                      4860
tectectagt attaaaggag gaaatgteac cacagacata teagtattga teaacageet
                                                                      4920
tattaaactg gaatgtgaaa cacggggact tccaatgcct gccattactt ggtataagga
                                                                      4980
cgggcagcca atcatgtcca gctcacaagc actttatatt gataaaggac aatatcttca
                                                                      5040
tattcctcga gcacaggtct ctgattcagc aacatatacg tgtcacgtag ccaatgttgc
                                                                      5100
tggaactgct gaaaaatcat tccatgtgga tgtctatgtt cctccaatga ttgaaggcaa
                                                                      5160
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                                                                      5280
taatgacaat atccgcatag aagctggtgg gaagaaactc gaaatcatga gtgcccaaga
                                                                      5340
aattgatcga ggacagtaca tatgcgtggc taccagtgtg gcaggagaaa aggaaatcaa
                                                                      5400
atatgaagtt gatgtettgg tgccaccage tatagaagga ggagatgaaa catettaett
                                                                      5460
cattgtgatg gttaataact tactggaget agattgteat gtgacagget etececeace
                                                                      5520
aactatcatg tggctgaagg atggccagtt aattgatgaa agggatggat tcaagatttt
                                                                      5580
attaaatgga cgcaaactgg ttattgctca ggctcaagtg tcaaacacag gcctttatcg
                                                                      5640
gtgcatggca gcaaatactg ctggagacca caagaaggaa tttgaagtga ctgttcatgt
                                                                      5700
tcctccaaca atcaagtcct caggcctttc tgagagagtt gtggtaaaat acaagcctgt
                                                                      5760
cgccttgcag tgcatagcca atgggattcc aaatccttcc attacatggt taaaagatga
                                                                      5820
ccagcctgtg aacactgccc aaggaaacct taaaatacag tcttctggtc gagttctaca
                                                                      5880
aattgccaaa accetgttgg aagatgetgg cagatacaca tgtgtggcta ccaacgcage
                                                                      5940
tggagaaaca caacagcaca ttcaactgca tgttcatgaa ccacctagtc tggaagatgc
                                                                      6000
tggaaaaatg ctgaatgaga ctgtgttggt gagcaaccct gtacagctgg agtgtaaggc
                                                                      6060
agctggaaat cctgtgcctg ttattacatg gtacaaagat aatcgtctac tctcaggttc
                                                                      6120
caccagcatg actttcttga acagaggaca gatcattgat attgaaagtg cccagatctc
                                                                      6180
agatgctggc atatataaat gcgtggccat caactcagct ggagctacag agttatttta
                                                                      6240
cagtotgeaa gttcatgtgg ccccatcaat ttctggcagc aataacatgg tggcagtggt
                                                                      6300
ggttaataac ccggtgaggt tagaatgtga agccagaggt attcctgccc caagtctgac
                                                                      6360
ctggttgaaa gatgggagtc ctgtttctag tttttctaat ggattacagg ttctctctgg
                                                                      6420
tggtcgaatc ctagcattga ccagtgcaca aatcagcgac acaggaaggt acacctgcgt
                                                                      6480
ggcagtgaat gctgctggag aaaagcaaag ggacattgac ctccgagtat atgttccgcc
                                                                      6540
aaatattatg ggagaagaac agaatgtoto tgtootoatt agccaagotg tggaattact
                                                                      6600
```

F16.78 2 Whil

Homo sapiens fibulin 6 (FIBL-6), mRNA gi|20536570|ref|XM_053531.6|[20536570]

```
atgtcaaagt gatgctattc ccccacctac tettacttgg ttaaaagacg gccacccett
                                                                       6660
 gctgaagaaa ccaggcctca gtatatctga aaatagaagt gtgttaaaga ttgaagatgc
                                                                       6720
 tcaggttcaa gacactggtc gttacacttg tgaagcaaca aatgttgctg gaaaaactga
                                                                       6780
 aaaaaactac aatgtcaaca tttgggtccc cccaaatatt ggtggttctg atgaacttac
                                                                       6840
 tcaacttaca gtcattgaag ggaatctcat tagtctgttq tgtgaatcaa gtqqtattcc
                                                                       6900
 acccccaaat ctcatctgga agaagaaagg ctctccagtg ctgactgatt ccatggggcg
                                                                       6960
 agttagaatt ttatctgggg gcaggcaatt acaaatttca attgctgaaa agtctgatgc
                                                                       7020
 agcactctat tcatgtgtgg cgtcgaatgt tgctgggact gcaaagaaag aatacaatct
                                                                       7080
 gcaagtttac attagaccaa ccataaccaa cagtggcagc caccctactg aaattattgt
                                                                       7140
 gacccgaggg aagagtatct ccttggagtg tgaggtgcag ggtattccac caccaacagt
                                                                       7200
 gacetggatg aaagatggee acceettgat caaggeaaag ggagtagaaa taetggatga
                                                                       7260
 aggicacate etteagetga agaacattea tgtatetgae acaggeegtt atgtgtgtgt
                                                                       7320
 tgctgtgaat gtagcaggaa tgactgacaa aaaatatgac ttaagtgtcc atgctcctcc
                                                                       7380
 aagcatcata ggaaaccaca ggtcacctga aaatattagt gtggtagaaa agaactcagt
                                                                       7440
 atctttgact tgtgaagctt ctggaattcc cctgccttcc ataacctggt tcaaagatgg
                                                                       7500
 gtggcctgtc agccttagca attctgtgag gattctttca ggaggcagga tgctacggct
                                                                       7560
 gatgcagacc acaatggaag atgctggcca atatacttgc gttgtaagga atgcagctgg
                                                                       7620
 tgaagaaaga aaaatctttg ggctttcagt attagtacca cctcatattg tgggtgaaaa
                                                                       7680
 tacattggaa gatgtgaagg taaaagagaa acagagtgtt acgctgactt gtgaagtgac
                                                                       7740
 agggaatcca gtgccagaaa ttacatggca caaagatggg cagcccctcc aagaagatga
                                                                       7800
 agcecatcac attatatctg gtggccgttt tcttcaaatt accaatgtcc aggtgccaca
                                                                       7860
cactggaaga tatacatgtt tggcttccag tccagctggc cacaagagca ggagcttcag
                                                                       7920
 tcttaatgta tttgtatctc ctacaattgc tggtgtaggt agtgatggca accctgaaga
                                                                       7980
 tgtcactgtc atccttaaca gccctacatc tttggtctgt gaagcttatt catatcctcc
                                                                       8040
 agctaccatc acctggttta aggatggcac tcctttagaa tctaaccgaa atattcgtat
                                                                       8100
 tottocagga ggcagaacto tgcagatoot caatgcacag gaggacaatg otggaagata
                                                                       8160
 ctcttgtgta gccacgaatg aggctggaga aatgataaag cactatgaag tgaaggtgta
                                                                       8220
 cattecacce ataatcaata aaggggacet ttgggggeea ggtettteee etaaagaagt
                                                                       8280
 gaagatcaaa gtaaacaaca ctctgacctt ggaatgtgaa gcgtatgcaa ttccttctgc
                                                                       8.340
 ctccctcage tggtacaagg atggacagee cettaaatee gatgateatg ttaatattge
                                                                       8400
 tgcgaatgga cacacacttc aaataaagga ggctcaaata tcagacaccg gacgatatac
                                                                       B460
ttgtgtagca tctaacattg caggtgaaga tgagttggat tttgatgtga atattcaagt
                                                                       8520
 tectecaagt ttteagaaac tetgggaaat aggaaacatg etagataetg geaggaatgg
                                                                       8580
 tgaagccaaa gatgtgatca tcaacaatcc catttetett tactgtgaga caaatgetge
                                                                       8640
 tececetect acaetgacat ggtacaaaga tggccaecet etgaceteaa gtgataaagt
                                                                       8700
 attgattttg ccaggagggc gagtgttgca gattcctcgg gctaaagtag aagatgctgg
                                                                       8760
 gagatacaca tgtgtggctg tgaatgaggc tggagaagat tcccttcaat atgatgtccg
                                                                       8820
 tgtactcgtg ccgccaatta tcaagggagc aaatagtgat ctccctgaag aggtcaccgt
                                                                       8880
gctggtgaac aagagtgcac tgatagagtg tttatccagt ggcagcccag caccaaggaa
                                                                       8940
 ttcctggcag aaagatggac agcccttgct agaagatgac catcataaat ttctatctaa
                                                                       9000
 tggacgaatt ctgcagattc tgaatactca aataacagat atcggcaggt atgtgtgtgt
                                                                       9060
tgctgagaac acagctggga gtgccaaaaa atattttaac ctcaatgttc atgttcctcc
                                                                       9120
aagtgtcatt ggtcctaaat ctgaaaatct taccgtcgtg gtgaacaatt tcatctctt
                                                                       9180
gacctgtgag gtctctggtt ttccacctcc tgacctcagc tggctcaaga atgaacagcc
                                                                       9240
catcaaactg aacacaaata ctctcattgt gcctggtggt cgaactctac agattattcg
                                                                       9300
ggccaaggta tcagatggtg gtgaatacac ttgtatagct atcaatcaag ctggcgaaag
                                                                       9360
 caagaaaaag ttttccctga ctgtttatgt gcccccaagc attaaagacc atgacagtga
                                                                       9420
atctctttct gtagttaatg taagagaggg aacttctgtg tctttggagt gtgagtcgaa
                                                                       9480
cgctgtgcca cctccagtca tcacttggta taagaatggg cggatgataa cagagtctac
                                                                       9540
 tcatgtggag attttagetg atggacaaat gctacacatt aagaaagetg aggtatetga
                                                                       9600
cacaggccag tatgtatgta gagctataaa tgtagcagga cgggatgata aaaatttcca
                                                                       9660
cctcaatgta tatgtgccac ccagtattga aggacctgaa agagaagtga ttgtggagac
                                                                       9720
gatcagcaat cctgtgacat taacatgtga tgccactggg atcccacctc ccacgatagc
                                                                       9780
atggttaaag aaccacaagc gcatagaaaa ttctgactca ctggaagttc gtattttgtc
                                                                       9840
tggaggtagc aaactccaga ttgcccggtc tcagcattca gatagtggaa actatacatg
                                                                       9900
tattgcttca aatatggagg gaaaagccca gaaatattac tttctttcaa ttcaagttcc
                                                                       9960
tccaagtgtt gctggtgctg aaattccaag tgatgtcagt gtccttctag gagaaaatgt
                                                                      10020
```

FIG.72 added

Homo sapiens fibulin 6 (FIBL-6), mRNA gi|20536570|ref|XM_053531.6|[20536570]

```
10080
tgagetggte tgcaatgcaa atggcattee tactecactt attcaatgge ttaaagatgg
                                                                     10140
aaagcccata gctagtggtg aaacagaaag aatccgagtg agtgcaaatg gcagcacatt
                                                                     10200
aaacatttat ggagctetta catetgacae ggggaaatae acatgtgttg etactaatee
cgctggagaa gaagaccgaa tttttaactt gaatgtctat gttacaccta caattagggg
                                                                     10260
taataaagat gaagcagaga aactaatgac tttagtggat acttcaataa atattgaatg
                                                                     10320
cagagecaca gggacgecte caccacagat aaactggetg aagaatggae tteetetgee
                                                                     10380
teteteetee catateeggt tactggcage aggacaagtt atcaggattg tgagagetea
                                                                     10440
ggtgtctgat gtcgctgtgt atacttgtgt ggcctccaac agagctgggg tggataataa
                                                                     10500
                                                                     10560
gcattacaat cttcaagtgt ttgcaccacc aaatatggac aattcaatgg ggacagagga
aatcacagtt ctcaaaggta gttccacctc tatggcatgc attactgatg gaaccccagc
                                                                     10620
                                                                     10680
teccagtatg geetggetta gagatggeea geetetgggg ettgatgeee atetgaeagt
cagcacccat ggaatggtcc tgcagctcct caaagcagag actgaagatt cgggaaagta
                                                                     10740
cacctgcatt gcctcaaatg aagctggaga agtcagcaag cactttatcc tcaaggtcct
                                                                     10800
agaaccacct cacattaatg gatctgaaga acatgaagag atatcagtaa ttgttaataa
                                                                     10860
                                                                     10920
cécactigaa citaccigca tigcitcigg aateccagee cetaaaatga cetggatgaa
                                                                     10980
agatggccgg ccccttccac agacggatca agtgcaaact ctaggaggag gagaggttct
                                                                     11040
tegaatttet actgeteagg tggaggatae aggaagatat acatgtetgg catecagtee
tgcaggagat gatgataagg aatatctagt gagagtgcat gtacctccta atattgctgg
                                                                     11100
aactgatgag ccccgggata tcactgtgtt acggaacaga caagtgacat tggaatgcaa
                                                                     11160
                                                                     11220
gtcagatgca gtgcccccac ctgtaattac ttggctcaga aatggagaac ggttacaggc
aacacctcga gtgcgaatcc tatctggagg gagatacttg caaatcaaca atgctgacct
                                                                     11280
aggtgataca gccaattata cctgtgttgc cagcaacatt gcaggaaaga ctacaagaga
                                                                     11340
                                                                     11400
atttattctc actgtaaatg ttcctccaaa cataaagggg ggcccccaga gccttgtaat
                                                                     11460
tettttaaat aagteaactg tattggaatg categetgaa ggtgtgeeaa etecaaggat
aacatggaga aaggatggag ctgttctagc tgggaatcat gcaagatatt ccatcttgga
                                                                     11520
                                                                     11580
aaatggattc cttcatattc aatcagcaca tgtcactgac actggacggt atttgtgtat
ggccaccaat gctgctggaa cagatcgcag gcgaatagat ttacaggtcc atgttcctcc
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atctattgct cogggtccta ccaacatgac tgtaatagta aatgttcaaa ctactctggc
                                                                     11700
ttgtgagget actgggatac caaaaccate aatcaattgg agaaaaaatg ggcatettet
                                                                     11760
taatgtggat caaaatcaga actcatacag gctcctttct tcaggttcac tagtaattat
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ttccccttct gtggatgaca ctgcaaccta tgaatgtact gtgacaaacg gtgctggaga
                                                                     11880
tgataaaaga actgtggate teactgteea agtteeacet tecatagetg atgageetae
                                                                     11940
agatttecta gtaaccaaac atgeeccage agtaattace tgeactgett egggagttee
                                                                     12000
atttccctca attcactgga ccaaaaatgg tataagactg cttcccaggg gagatggcta
                                                                     12060
tagaattetg teeteaggag caattgaaat acttgecace caattaaace atgetggaag
                                                                     12120
                                                                     12180
atacacttgt gtcgctagga atgcggctgg ctctgcacat cgacacgtga cccttcatgt
                                                                     12240
tratgagect coagteatte agreeceaace aagtgaacta cacgteatte tgaacaatee
                                                                     12300
tattttatta ccatgtgaag caacagggac acccagtcct ttcattactt ggcaaaaaga
aggcatcaat gttaacactt caggcagaaa ccatgcagtt cttcctagtg gcggcttaca
                                                                     12360
gatetecaga getgteegag aggatgetgg caettacatg tgtgtggeec agaaccegge
                                                                     12420
tggtacagcc ttgggcaaaa tcaagttaaa tgtccaagtt cctccagtca ttagccctca
                                                                     12480
tctaaaggaa tatgttattg ctgtggacaa gcccatcacg ttatcctgtg aagcagatgg
                                                                     12540
cctccctccg cctgacatta catggcataa agatgggcgt gcaattgtgg aatctatccg
                                                                     12600
ccagcgcgtc ctcagctctg gctctctgca aatagcattt gtccagcctg gtgatgctgg
                                                                     12660
                                                                     12720
ccattacacg tgcatggcag ccaatgtagc aggatcaagc agcacaagca ccaagctcac
cgtccatgta ccacccagga tcagaagtac agaaggacac tacacggtca atgagaattc
                                                                     12780
acaagccatt cttccatgcg tagctgatgg aatccccaca ccagcaatta actggaaaaa
                                                                     12840
agacaatgtt cttttagcta acttgttagg aaaatacact gctgaaccat atggagaact
                                                                     129.00
                                                                     12960
cattttagaa aatgttgtgc tggaggattc tggcttctat acctgtgttg ctaacaatgc
tgcaggtgaa gatacacaca ctgtcagcct gactgtgcat gttctcccca cttttactga
                                                                     13020
actteetgga gaegtgteat taaataaagg agaacageta egattaaget gtaaagetae
                                                                     13080
tggtattcca ttgcccaaat taacatggac cttcaataac aatattattc cagcccactt
                                                                     13140
tgacagtgtg aatggacaca gtgaacttgt tattgaaaga gtgtcaaaag aggattcagg
                                                                     13200
tacttatgtg tgcaccgcag agaacagcgt tggctttgtg aaggcaattg gatttgttta
                                                                     13260
tgtgaaagaa cctccagtct tcaaaggtga ttatccttct aactggattg aaccacttgg
                                                                     13320
tgggaatgca atcctgaatt gtgaggtgaa aggagacccc accccaacca tccagtggaa
                                                                     13380
cagaaaggga gtggatattg aaattageca cagaateegg caactgggea atggeteeet
                                                                     13440
```

747] 1-19.70 Radded

Homo sapiens fibulin 6 (FIBL-6), mRNA gi|20536570|ref|XM_053531.6|[20536570]

```
ggccatctat ggcactgtta atgaagatgc cggtgactat acatgtgtag ctaccaatga
                                                                     13500
agctggggtg gtggagcgca gcatgagtct gactctgcaa agtcctccta ttatcactct
                                                                     13560
tgagccagtg gaaactgtta ttaatgctgg tggcaaaatc atattgaatt gtcaggcaac
                                                                     13620
tggagagcct caaccaacca ttacatggtc ccgtcaaggg cactctattt cctgggatga
                                                                     13680
                                                                     13740
ccgggttaac gtgttgtcca acaactcatt atatattgct gatgctcaga aagaagatac
ctctgaattt gaatgtgttg ctcgaaactt aatgggttct gtccttgtca gagtgccagt
                                                                     13800
catagtccag gttcatggtg gattttccca gtggtctgca tggagagcct gcagtgtcac
                                                                     13860
ctgtggaaaa ggcatccaaa agaggagteg tetgtgcaac cageceette cagecaatgg
                                                                     13920
tgggaagccc tgccaaggtt cagatttgga aatgcgaaac tgtcaaaata agccttgtcc
                                                                     13980
agtggatggt agctggtcgg aatggagtct ttgggaagaa tgcacaagga gctgtggacg
                                                                     14040
                                                                     14100
cggcaaccaa accaggacca ggacttgcaa taatccatca gttcagcatg gtgggcggcc
atgtgaaggg aatgctgtgg aaataattat gtgcaacatt aggccttgcc cagttcatgg
                                                                     14160
agcatggagc gcttggcagc cttggggaac atgcagcgaa agttgtggga aaggtactca
                                                                     14220
gacaagagca agactttgta ataacccacc accagcgttt ggtgggtcct actgtgatgg
                                                                     14280
agcagaaaca cagatgcaag tttgcaatga aagaaattgt ccaattcatg gcaagtgggc
                                                                     14340
gacttgggcc agttggagtg cctgttctgt gtcatgtgga ggaggtgcca gacagagaac
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aaggggctgc tccgaccctg tgccccagta tggaggaagg aaatgcgaag ggagtgatgt
                                                                     14460
ccagagtgat tittgcaaca gigacccitg cccaacccai ggtaactgga giccitiggag
                                                                     14520
tggctgggga acatgcagcc ggacgtgtaa cggagggcag atgcggcggt accgcacatg
                                                                     14580
tgataaccct cctccctcca atgggggaag agcttgtggg ggaccagact cccagatcca
                                                                     14640
gaggtgcaac actgacatgt gtcctgtgga tggaagttgg ggaagctggc atagttggag
                                                                     14700
ccagtgctct gcctcctgtg gaggaggtga aaagactcgg aagcggctgt gcgaccatcc
                                                                     14760
tgtgccagtt aaaggtggcc gtccctgtcc cggagacact actcaggtga ccaggtgcaa
                                                                     14820
tgtacaagca tgtccaggtg ggccccagcg agccagagga agtgttattg gaaatattaa
                                                                     14880
tgatgttgaa tttggaattg ctttccttaa tgccacaata actgatagcc ctaactctga
                                                                     14940
tactagaata atacgtgcca aaattaccaa tgtacctcgt agtcttggtt cagcaatgag
                                                                     15000
aaagatagtt totattotaa atoocattta tiggacaaca gcaaaggaaa taggagaagc
                                                                     15060
                                                                     15120
agtcaatggc tttaccctca ccaatgcagt cttcaaaaga gaaactcaag tggaatttgc
aactggagaa atcttgcaga tgagtcatat tgcccggggc ttggattccg atggttcttt
                                                                     15180
gctgctagat atcgttgtga gtggctatgt cctacagctt cagtcacctg ctgaagtcac
                                                                     15240
tgtaaaggat tacacagagg actacatica aacaggteet gggeagetgt acgeetacte
                                                                     15300
aaccoggotg ttcaccattg atggcatcag catcocatac acatggaacc acaccgtttt
                                                                     15360
ctatgatcag gcacagggaa gaatgccttt cttggttgaa acacttcatg catcctctgt
                                                                     15420
ggaatctgac tataaccaga tagaagagac actgggtttt aaaattcatg cttcaatatc
                                                                     15480
caaaggagat cgcagtaatc agtgcccctc cgggtttacc ttagactcag ttggaccttt
                                                                     15540
ttgtgctgat gaggatgaat gtgcagcagg gaatccctgc tcccatagct gccacaatgc
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ttgtcaagat attgatgagt gtgctttggg taggcatacc tgccacgctg gtcaggactg
                                                                     15720
tgacaatacg attggatett atcgctgtgt ggtccgttgt ggaagtgget ttcgaagaac
                                                                     15780
ctctgatggg ctgagttgtc aagatattaa tgaatgtcaa gaatccagcc cctgtcacca
                                                                     15840
gcgctgtttc aatgccatag gaagtttcca ttgtggatgt gaacctgggt atcagctcaa
                                                                     15900
aggcagaaaa tgcatggatg tgaacgagtg tagacaaaat gtatgcagac cagatcagca
                                                                     15960
ctgtaagaac acccgtggtg gctataagtg cattgatctt tgtccaaatg gaatgaccaa
                                                                     16020
ggcagaaaat ggaacctgta ttgatattga tgaatgtaaa gatgggaccc atcagtgcag
                                                                     16080
atataaccag atatgtgaga atacaagagg cagctatcgt tgtgtatgcc caagaggtta
                                                                     16140
tcggtctcaa ggagttggaa gaccctgcat ggacattaat gaatgtgaac aagtgcctaa
                                                                     16200
accttgtgca catcagtgct ccaacacccc cggcagcttc aagtgtatct gtccaccagg
                                                                     16260
acaacattta ttaggggacg ggaaatcttg cgctggattg gagaggctgc caaattatgg
                                                                     16320
cactcaatac agtagctata accttgcacg gttctcccct gtgagaaaca actatcaacc
                                                                     16380
tcaacagcat tacagacagt actcacatct ctacagctcc tactcagagt atagaaacag
                                                                     16440
cagaacatct ctctccagga ctagaaggac tattaggaaa acttgccctg aaggctctga
                                                                     16500
ggcaagccat gacacatgtg tagatattga tgaatgtgaa aatacagatg cctgccagca
                                                                     16560
tgagtgtaag aatacetttg gaagttatca gtgcatetge ceacetgget atcaacteae
                                                                     16620
acacaatgga aagacatgcc aagatatcga tgaatgtctg gagcagaatg tgcactgtgg
                                                                     16680
acceaatege atgtgettea acatgagagg aagetaceag tgeategata caccetgtee
                                                                     16740
acccaactac caacgggatc ctgtttcagg gttctgcctc aagaactgtc cacccaatga
                                                                     16800
tttggaatgt gccttgagcc catatgcctt ggaatacaaa ctcgtctccc tcccatttgg
                                                                     16860
```

FIG. 7E A added Susan Alpert Siegel, Ph.D., Klarquist Sparkman, LLP, 121 SW Salmon Street, Suite 160C Portland, Oregon 97204 (503) 595-5300, Inventor (s): Klein and Schultz; Title: GENE MUTATION ASSOCIATED WITH AGE-RELATED MACULAR DEGENERATION Application No. 10/766,760; Attorney Docket No.: 899-76335-02

ANNOTATED SHEETS

Homo sapiens fibulin 6 (FIBL-6), mRNA gi|20536570|ref|XM 053531.6|[20536570]

	aatanceace	aatcaagatt	taatcccct	gottocatac	acacaggatg	gagtgatgca	16920
					gttccttttg		16980
	tassasanta	acconstan	tatatacasc	accaccacta	cgagaagcag	agacetaceg	17040
	cyaaaaccty	casactest	cotacacac	castoggacc	attgaatatc	agaccacatt	17100
	catgagggte	cgageeteat	cccacagege	caacgggacc	actgaacacc	acctattcca	17160
	catagettat	atagetgtgt	eegectatee	acaccaayya	actctccaaa	statettass	17220
	catatttaaa	ccgcattaat	catggcaatc	aagccccctt	ccagattact	gccccccgaa	17280
	cagttgcaat	cttggcagct	tgaaaatggt	gctacactct	gttttgtgtg	cetteettgg	
	tacttctgag	gtattttcat	gatcccacca	tggtcatatc	ttgaagtatg	gtctagaaaa	17340
	gtcccttatt	attttattta	ttacactgga	gcagttactt	cccaaagatt	attctgaaca	17400
	tctaacagga	catatcagtg	atggtttaca	gtagtgtagt	acctaagatc	attttcctga	17460
					gaatcaaata		17520
	gcátttgact	atttttagaa	tcataaaatt	agttactaag	tattttgatc	aaagcttata	17580
					aataggactt		17640
					gtacagctac		17700
					aacaaggata		17760
	tasttttata	agatogoto	aaccacttat	gataataata	ataaaaaaga	ctactttacc	17820
	-ctcacgtcag	ttataastaa	categoactt	taasaattt	actataaact	ttcatccant	17880
•	- Ctcacgtcag	ctytacatyy	tacquatt		aatataaata	aaaaaaattt	17940
	tagetteata	acttttacgt	tecagaattt	tgeceatee	cctgtcaatg	anaycaaccc	18000
					tcatgtgttc		18060
	aaatattaca	cgtcaataca	ctgtacatgg	tggtaataga	ctctaagcaa	ttgccaagat	
	gtattctatt	tttatgaagt	gtatatatat	taccttagtg	tgcattttct	atataatatc	18120
	ttgatggact	cttttataaa	attattttat	aaaaaacaat	gttacactaa	aatcagccta	18180
	aataaatttt	cacaactttt	tttcat				18206

CC6]]
FIG.7F